

United States of America
FEDERAL COMMUNICATIONS COMMISSION

FCC 351
May 1984

File No.: BP-840607AF
Call Sign: NEW

AM BROADCAST STATION CONSTRUCTION PERMIT

1. Permittee:

Hensley Broadcasting

2. Station location : Shiremanstown, PA
3. Transmitter location : 3 miles SE of Shiremanstown
on Sheepford Road
Shiremanstown, PA

North Latitude : 40° 11' 11"
West Longitude : 76° 55' 03"

4. Main studio location
(Listed only if not at
transmitter site or not within
boundaries of principal community)

5. Remote control location :
6. Transmitter : Type accepted
(See Section 73.1660, 73.1665
and 73.1670 of the Commission's
Rules.)

7. Antenna and ground system: Attached

Average hours of sunrise and sunset:

Standard Time (Non-Advanced)			
January	7:30 am	to	5:00 pm
February	7:00 am	to	5:45 pm
March	6:15 am	to	6:15 pm
April	5:30 am	to	6:45 pm
May	5:00 am	to	7:15 pm
June	4:30 am	to	7:45 pm
July	4:45 am	to	7:30 pm
August	5:15 am	to	7:00 pm
September	5:45 am	to	6:15 pm
October	6:15 am	to	5:30 pm
November	6:45 am	to	4:45 pm
December	7:30 am	to	4:45 pm

8. Obstruction marking and lighting specifications: FCC Form 715, paragraphs: 1, 3, 12, 21 & 22

9. Operating Assignment
Frequency : 720 kHz
Power-Night : ----
Day : 5 kW (2.5 kw- C. H. (Directional)
Hours of Operation : Daytime
10. Conditions : Attached

11. Deadline for completion of construction and filing FCC Form 302: 12 months from date of grant (shown below)

Subject to the provisions of the Communications Act of 1934, as amended, treaties, and Commission Rules, and further subject to conditions set forth in this permit, authority is hereby granted to construct an AM broadcast station located and described as above.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission Rules.

This permit shall be forfeited if the station is not ready for operation within the time specified or within such further time as the Commission may allow unless completion of the station is prevented by causes not under the control of the permittee. See Section 1, 599 of the Commission's Rules.

✓ This construction permit consists of this page and page(s) 2,3
edr

Dated: JAN 28 1985

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DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM DA -D

No. and Type of Elements: Three, guyed, series-excited, steel radiators of uniform cross section. Theoretical RMS 734.81 mV/m/km, day; 519.59 mV/m/km, C.H. Standard RMS: 772.4 mV/m/km, day; 546.17 mV/m/km, C.H.

Height above Insulators: 341.7' (90°)

Overall Height: 344.7'

Spacing and Orientation: With tower #1(c) as reference, tower #2(SE) is spaced 75° on a line bearing 140° true, and tower #3(NW) is spaced 75° on a line bearing 320° true.

Non-Directional Antenna: N/A

Ground System As proposed

THEORETICAL SPECIFICATIONS

Phasing:	C.H. &	Tower Day	#1(C) 0°	#2(SE) 147°	#3(NW) -147°
Field Ratio:	C.H. &	Day	1.0	0.53	0.53

The inverse distance field intensity at a distance of one mile from the above antenna in the directions specified shall not exceed the following values:

Daytime	
<u>Azimuth</u>	<u>Radiation</u>
60.5°	22.49 mV/m
94.5°	22.49 mV/m
185.5°	22.49 mV/m
219.5°	22.49 mV/m

A monitoring point in each of the above directions in which a field intensity is specified shall be designated with complete detail including a description of the point, directions for proceeding thereto and the field intensity measured at the point after final adjustment of the antenna system in exact accordance with the terms of this authorization and the Rules and Regulations and Standards of Good Engineering Practice Governing Standard Broadcast Stations. The points shall be in the clear so as to permit the taking of unobstructed field intensity measurements and shall be located not less than one mile nor more than four miles from the antenna in the direction specified.

No operation shall occur other than during the experimental period until data has been submitted showing that operation is in accordance with the above specifications and that the field intensity pattern is in substantial agreement with the theoretical pattern specified in the application

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The authority granted herein is subject to the following conditions:

Field measuring equipment shall be available at all times and, after commencement of operation, the field strength at each of the monitoring points shall be measured at least once every seven days and an appropriate record kept of all measurements so made.

A complete non-directional proof of performance, in addition to a complete proof on the directional antenna system, shall be submitted before program tests are authorized. The non-directional and directional field strength measurements must be made under similar environmental conditions.

Permittee shall install a type accepted transmitter or perform measurements made in accordance with Section 73.48 of the Rules and include such data in the station file.